

TABLE ERRATA TO “FORMULAS AND THEOREMS FOR THE
SPECIAL FUNCTIONS OF MATHEMATICAL PHYSICS” BY
W. MAGNUS, F. OBERHETTINGER & R. P. SONI (1966)

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A Table Errata is submitted concerning a formula in terms of a sum of two Gauss hypergeometric functions for the Ferrers function of the second kind (associated Legendre function of the second kind “on the cut”). This error occurs on p. 167 of Magnus, Oberhettinger & Soni (1966) *Formulas and Theorems for the Special Functions of Mathematical Physics* (third enlarged edition, Springer-Verlag, New York).

On p. 167, line 10 from the bottom, for $\left\{ \cot \left[\frac{\pi}{2}(\nu + \mu) \right] \right\}$, read $\left\{ -\cot \left[\frac{\pi}{2}(\nu + \mu) \right] \right\}$. With this change in sign, plus the introduction of the factor of x in that same term (the Table Errata for the introduction of the factor of x in this formula, is given in van Haeringen & Kok (1983) [1]), this formula is consistent with the formula (14.3.12) presented in Olver *et al.* (2010) [2].

REFERENCES

- [1] H. van Haeringen and L. P. Kok, Table errata: *Formulas and theorems for the special functions of mathematical physics*, [Springer, New York, 1966; MR38:1291] by W. Magnus, F. Oberhettinger and R. P. Soni, *Mathematics of Computation*, **41** (164), 775–778, 1983. MR0717720 (84i:33001)
- [2] F. W. J. Olver, D. W. Lozier, R. F. Boisvert, and C. W. Clark, editors, *NIST handbook of mathematical functions*, Cambridge University Press, Cambridge, 2010.

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